



Stellar 1N+

Polaris 1N+

ABC N-Type

Dual-glass Bifacial Model

Up to **24.1%**
620W-650W



Product
Warranty



Performance
Warranty

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 24.1%

Lower degradation: 1 year $\leq 1.0\%$, 2 -30 year $\leq 0.35\%$

Better temperature coefficient: $-0.26\%/^{\circ}\text{C}$

Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

Shading Unique Optimization

Complete Set of Quality Management System

IEC 61730 (2023) IEC 61215 (2021)

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Safety and Management System

(Made in China)



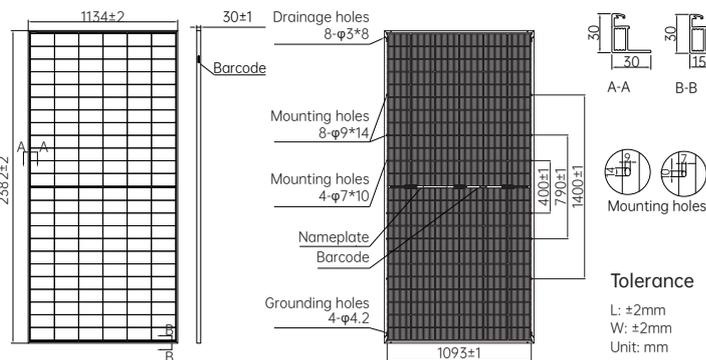
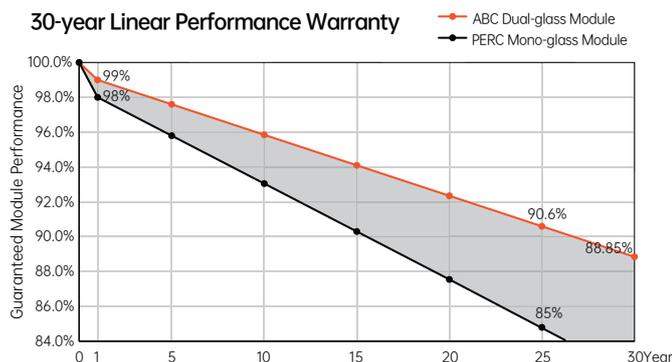
650W
Output

24.1%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty



Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s) $\phi V_{oc}=99\%$ $\phi I_{sc}=68\%$ $\phi P_{max}=65\%$ Power Tolerance:0~+3%

Model	AIKO-G620-MCH72Dw		AIKO-G625-MCH72Dw		AIKO-G630-MCH72Dw		AIKO-G635-MCH72Dw		AIKO-G640-MCH72Dw		AIKO-G645-MCH72Dw		AIKO-G650-MCH72Dw	
	STC	BNPI												
P_{max} [W]	620	675	625	680	630	685	635	690	640	695	645	700	650	705
V_{oc} [V]	53.40	53.40	53.50	53.50	53.60	53.60	53.70	53.70	53.80	53.80	53.90	53.90	54.00	54.00
V_{mp} [V]	44.70	44.70	44.80	44.80	44.90	44.90	45.00	45.00	45.10	45.10	45.20	45.20	45.30	45.30
I_{sc} [A]	14.70	15.89	14.76	15.97	14.82	16.05	14.88	16.13	14.94	16.21	15.00	16.29	15.06	16.37
I_{mp} [A]	13.88	15.11	13.96	15.18	14.04	15.26	14.12	15.34	14.20	15.42	14.27	15.49	14.35	15.57
Module Efficiency	23.0%		23.1%		23.3%		23.5%		23.7%		23.9%		24.1%	

Mechanical Specification

Bifacial Factor	65±5%
Cell Type	N-Type ABC
Glass	Dual glass,2.0+2.0mm Heat Strengthened Glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 350mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 EVOA/MC4 EVO2
Weight	33.5kg±5%
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet/144 pcs per 20' GP/576pcs per 40' HQ

Temperature Ratings (STC)

Temperature Coefficient of I_{sc}	+ 0.05%/ °C
Temperature Coefficient of V_{oc}	- 0.22%/ °C
Temperature Coefficient of P_{max}	- 0.26%/ °C

Installation Guide

Operation Temperature	- 40°C~+85°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
V_{oc} and I_{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C



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*AIKO Energy reserves right to update the specification without notice
DS_EN_2404_V1.3